An Energized Electrical Work Permit is required anytime electrical work is done on systems of 50 volts or greater and not being fully locked/tagged out. Permits must be staffed through the Directorate of Public Works-O&M Division and approved by the DPW COR for RBS.

Preliminary Information

Project information should outline what work is to be done and why it needs to be done without lockout/tagout. This information should be completed by the people that will do the energized work. The requestor is the person wanting the work done, such as the facility manager, the project manager, the shop foreman, etc. The requester's signature is not required, but the requestor will be aware of the information.

Requester:	Work Request #:	
Date:		
Description of Work:		
Circuit Information: Location:		
Equipment:		
Date/Time Work is Planned to Occur:		
Reason equipment/circuit(s) cannot be	locked out (include attachment, if necessary):	
Consequences of unexpected fault or log progress:		
Requester of energized work (e.g., build foreman, etc.):		
Name & Title:	Signature:	Phone:
REQUIRED: Directorate of Public Works while energized:		n to allow work to be done
Approve: \square Disapprove: \square Name/Title	e: Signature:	
Approve: Disapprove: Name/Title	e: Signature:	

Details of Work

The details of the energized work should be completed by a qualified person that will be doing the work. Workers must be fully trained, briefed, equipped and understand the procedures to be followed.

Detailed description of work to be performed:		
Description of safety work practices to be followed:		
Shock Protection Boundary: Flash Protection Boundary	ry:Flash Protection Hazard Category:	
PPE required:		
Means of restricting access to work area:	Job Briefing Completed:	
Shock Protection Boundary: Flash Protection Boundary	ry:Flash Protection Hazard Category:	
PPE required:	•	
Means of restricting access to work area:	Job Briefing Completed:	
Qualified worker(s): Are adequate worker safety precaut	ons in place and being followed?:	
Name & Title:	Signature:	
Name & Title:	Signature:	
REQUIRED: Approver (e.g., electrically qualified General All energized work permits must be reviewed and approved position, before work can begin.	by two qualified persons, at least one in a managerial	
Approve: Disapprove: Name/Title:	Signature:	
<u>Close Permit:</u> Each permit is for a specific location, time fram be closed out. Any incidents, unexpected occurrences or devidences with the workers doing this work and their supervisions.	viations from regular work practices will be noted and	
Name & Title:	_Signature:	
**Submit a copy of the completed permit to the Fort Han	nilton Safety Office, Bldg 137C Poly Place, Suite 2E,	

Brooklyn, NY 11252.

Approach Distance Boundaries

Nominal System Voltage Range, Phase to Phase	Limited Approach Boundary: Exposed Movable Conductor	Limited Approach Boundary: Exposed Fixed Circuit Part	Restricted Approach Boundary; Includes Inadvertent Movement Adder	Prohibited Approach Boundary	Default Arc-Flash Protection Boundary (if no arc-flash analysis is available)†
50 to 300 V	10 ft 0 in.	3 ft 6 in.	Avoid contact	Avoid contact	4 ft 0 in.
301 to 750 V	10 ft 0 in.	3 ft 6 in.	1 ft 0 in.	0 ft 1 in.	4 ft 0 in.
751 V to 15 kV	10 ft 0 in.	5 ft 0 in.	2 ft 2 in.	0 ft 7 in.	4 ft 0 in.

[†] assumes supply transformer sized at less than 300 kVA with over-current interrupting devices.

Arc-Flash Protection Levels:

Arc Flash Protection Level	Description of clothing components	Min. Rating
Level A: Basic work clothing for elect. qual. workers	natural fiber long sleeve shirt; natural fiber long pants;	1.2 cal/cm ²
(equivalent to NFPA 70E 2004 hazard category 0)	natural fiber undergarments; safety glasses; and electric	
	hazard rated safety shoes	
Level B: Protection for electrically qualified workers*	basic work clothing (Level A) plus: fire resistant coveralls	8 cal/cm ²
(equivalent to NFPA 70E 2004 hazard category 2)	rated to at least 8 cal/cm ² ; voltage rated gloves; hard hat*;	
	arc-flash rated face shield*; and hearing protection*	
Level C: Protection for electrically qualified workers	basic work clothing (Level A) plus: fire resistant coveralls	40 cal/cm ²
(equivalent to NFPA 70E 2004 hazard category 4)	w/ double layer switching hood rated to at least 40 cal/cm ²	
	(i.e., a complete arc flash suit); and hearing protection	

^{*} Some tasks that require Level B Protection do not require an arc-flash rated face shield, hard hat and hearing protection.

Example tasks with acceptable PPE requirements (for more information contact your foreman or supervisor):

Task (Assumes Equipment Is Energized, and Work Is Done Within the Flash Protection	Flash	V-rated	V-rated
Boundary)	Protection	Gloves	Tools
Panel boards Rated 240 V and Below — Note 1 and Note 3			
Circuit breaker (CB) or fused switch operation with covers on	Α	No	No
CB or fused switch operation with covers off	Α	No	No
Work on energized parts, including voltage testing	B#	Yes	Yes
Remove/install CBs or fused switches	B#	Yes	Yes
Removal of bolted covers (to expose bare, energized parts)	B#	No	No
Opening hinged covers (to expose bare, energized parts)	Α	No	No
Panel boards or Switchboards Rated >240 V and up to 600 V (with molded case or insulated			
case circuit breakers) — Note 1 and Note 3			
CB or fused switch operation with covers on	Α	No	No
CB or fused switch operation with covers off	B#	No	No
Work on energized parts, including voltage testing	В	Yes	Yes
600 V Class Motor Control Centers (MCCs) — Note 2 (except as indicated) and Note 3			
CB or fused switch or starter operation with enclosure doors closed	Α	No	No
Reading a panel meter while operating a meter switch	Α	No	No
CB or fused switch or starter operation with enclosure doors open	B#	No	No
Work on energized parts, including voltage testing	В	Yes	Yes
Work on control circuits with energized parts 120 V or below, exposed	Α	Yes	Yes
Work on control circuits with energized parts >120 V, exposed	В	Yes	Yes
Insertion or removal of individual starter "buckets" from MCC — Note 4	С	Yes	No
Application of safety grounds, after voltage test	В	Yes	No
Removal of bolted covers (to expose bare, energized parts)	В	No	No
Opening hinged covers (to expose bare, energized parts)	B#	No	No
Other 600 V Class (277 V through 600 V, nominal) Equipment — Note 3			
Lighting or small power transformers (600 V, maximum)		_	_
Removal of bolted covers (to expose bare, energized parts)	В	No	No
Opening hinged covers (to expose bare, energized parts)	B#	No	No
Work on energized parts, including voltage testing	В	Yes	Yes
Application of safety grounds, after voltage test	В	Yes	No

B# means that an arc-flash rated face shield, hard hat & hearing protection are not required for this task. Other Level B protection is required

Notes:

- 1. 25 kA short circuit current available, 0.03 second (2 cycle) fault clearing time.
- 2. 65 kA short circuit current available, 0.03 seconds (2cycles) fault clearing time.
- 3. For < 10 kA short circuit current available, the hazard/risk category required may be reduced by one number.
- 4. 65 kA short circuit current available, 0.33 second (20 cycle) fault clearing time.

AMBULANCE & FIRE

Directorate of Emergency Services / Fire - 718-630-4357 Alternate - 911 Directorate of Public Works-O&M Division - 718-630-4931 Installation Safety Office - 718-630-4232